

ABSTRACT OF THE DISCLOSURE

To provide a fuel cell which has a reaction layer having good reaction efficiency and an electron collection layer for efficiently collecting electrons generated at the reaction layer and of which the output density is high and the characteristic is good and a method of manufacturing thereof.

The fuel cell comprises a first substrate provided with a gas flow path for supplying a first reaction gas; a first electron collection layer formed on the first substrate; a first reaction layer formed on the first electron collection layer; an electrolyte film formed on the first reaction layer; a second reaction layer formed on the electrolyte film; a second electron collection layer formed on the second reaction layer; and a second substrate provided with a second gas flow path for supplying a second reaction gas, the fuel cell is characterized in that at least one of the first electron collection layer and the second electron collection layer is constructed by stacking conductive material particles. The method of manufacturing the fuel cell is characterized in that the first and/or the second electron collection layer is formed by applying material for forming the electron collection layer at predetermined intervals using a discharging device.